

Drive Troubleshooting Form

	lease observe all safety pre-cautions and LOTO procedure age as you proceed and stop if it looks or feels unsafe.	es,
Date:	Jobsite:	
Job Number:	Contact:	
VFD Make:		
VFD Model:		
VFD S/N:		
POWER OFF DIODE C	· IECK	
Power down and wait (15	ninutes) for DC Bus to discharge	
SET METER TO THE DIODE	YMBOL	
METER PROBE - to DC BUS	-	
METER PROBE + to:		
L1=	U=	
L2=	V=	
L3=	W=	

Capacitors should be open allowing a charging effect.

2 nd Pair	2 nd Pair	2 nd Pair			
1 st Pair	1 st Pair	1 st Pair			
IGBT 1	IGBT2	IGBT3			
With meter set to Ohm measure between the gate leads, there are two pairs for each IGBT. Readings should be between 2k and 8k. Readings should be consistent. This step may be difficult to do without training or detailed guide for your specific drive. You can skip this test for now until after the alarm codes are investigated. These components are related to the power output side of the VFD.					
IGBT GATE TEST					
Readings should be .3 to .7 volt	ts and match.				
L3=	W=				
L2=	V=				
L1=	U=				
METER PROBE - to:					
METER PROBE + to DC BUS -					
Readings should be .3 to .7 volts and match.					
L3=	v W=				
L2=	V=				
L1=	U=				
METER PROBE + to:					
METER PROBE - to DC BUS +					
Capacitors should be open allow	wing a charging effect.				
L3=	W=				
L2=	V=				
L1=	U=				
METER PROBE – to:					
METER PROBE + to DC BUS +					

If any of these tests fail: <u>STOP!</u> The drive needs to either be repaired or replaced. <u>Do not</u> re-energize at this point dangerous and new fuses will be blown and perhaps

If these tests pass:

Disconnect the motor cable from the VFD. Make sure the cables ends are not touching anything.

the drive.
alarms and investigate.
og and investigate the alarm code/s
EST:
s of being on, measure DC voltage at DC- and DC+. 1.35 X the AC input voltage.
the VFD is not charging correctly and needs to be replaced or
ay did not come on check for DC power at the drive terminals.
eck With <u>Power On</u> :
e at terminals for 24VDC+ and Common
e at terminal for 10V+ and Common if available
sured here the control card and power supply are m a failed device connected to the control terminals.
as passed up to this point, SAFELY attempt to run the motor (in Manual clough it is disconnected. If it tried to run with no faults describing internate drive should be okay. The blown fuse/s may have been caused by a lie. Investigate the motor for internal shorts or shorts to ground as well ins freely.
Company Name:
Date: